(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau



(43) International Publication Date 17 June 2004 (17.06.2004)

(10) International Publication Number WO 2004/050084 A2

- (51) International Patent Classification7: A61K 31/385, 31/40, 31/401, 31/403, 31/445, C07D 403/12, 207/08, 409/12, C07K 5/06, A61P 9/00, 9/06, 9/10, 9/12, C07D 409/06, A61P 9/04
- (21) International Application Number:

PCT/IL2003/001006

(22) International Filing Date:

27 November 2003 (27.11.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

29 November 2002 (29.11.2002) US

60/429.864 60/430,003 29 November 2002 (29.11.2002)

- (71) Applicant (for all designated States except US): YISSUM RESEARCH DEVELOPMENT COMPANY OF THE HEBREW UNIVERSITY OF JERUSALEM [IL/IL]; Hi Tech Park, Edmond J Safra Campus, Givat Ram, P.O. Box 39135, 91390 Jerusalem (IL).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): HAJ-YEHIA, Abdullah, Ibrahim [IL/IL]; House #47, P.O. Box 168, 99761 Neve Shalom (IL). KHAN, Mohamed, Amin [US/US];

17313 Lotus Way, Morgan Hill, CA 95037 (US). QADRI, Bashir, Ali [IL/IL]; P.O.B. 3187, 20137 Kfar Nahif (IL).

- (74) Agents: LUZZATTO, Kfir et al.; Luzzatto & Luzzatto, P.O. Box 5352, 84152 Beer Sheva (IL).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: ACE-INHIBITORS HAVING ANTIOXIDANT AND NO-DONOR ACTIVITY

(57) Abstract: Multifonctional ACE inhibitor compounds are provided, that combine ACE-inhibiting activity with capability to scavenge superoxide and other reactive oxygen species, and that may further function as nitric oxide donors. The compounds are useful for preventing or treating various disorders, including cardiovascular, and diabetes associated disorders.

